
Xian Su, Ph.D. candidate
Department of Computer Science
Graduate Center
City University of New York

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PERSONAL INFORMATION

- Citizenship: China
- Permanent Residence: United States

RESEARCH INTERESTS

- Distributed Computing, Coding Theory, Machine Learning, Big Data Analysis

EDUCATION

- Ph.D. candidate, Computer Science, June 2022 - present
Graduate Center, City University of New York
New York City, New York, United States
Supervisor: Jun Li
- Master of Philosophy, Computer Science, August 2020 - May 2022
Graduate Center, City University of New York
New York City, New York, United States
- Graduate student, Computer Sciences, January 2018 - July 2020
School of Computing and Information Sciences, Florida International University
Miami, Florida, United States
- Bachelor of Science, Electronic and Information Engineering, August 2012 - July 2016
The Faculty of Information Science and Engineering, Ocean University of China
Qingdao, Shandong, China

EXPERIENCE

- Research Assistant, September 2020 – present
Graduate Center, City University Of New York
New York City, New York, United States
- Research Assistant, September 2018 – August 2020
School of Computing and Information Sciences, Florida International University
Miami, Florida, United States
- Research Volunteer, February 2018 – June 2018
School of Computing and Information Sciences, Florida International University
Miami, Florida, United States
- Student Research Assistant, August 2014 – June 2016
College of Information Science and Engineering, Ocean University of China
Qingdao, Shandong, China
- Internship, August 2015 – September 2015
HP, Jining International Software Talent, and Industry Base
Jining, Shandong, China
- Internship, August 2014 – September 2014
Hisense Multimedia Research Center
Qingdao, Shandong, China
- Internship, July 2013 – August 2013

Foxconn Industrial Park of Yantai
Yantai, Shandong, China

PUBLICATION

- **Journal Publications**

[1] **Xian Su**, Jared Parker, Xiaomei Zhong, Xiaodi Fan, Jun Li, "*Local Re-Encoding for Coded Matrix Multiplication*," in IEEE Open Journal of the Communications Society, vol. 3, pp. 1265-1279, 2022.

- **Conference Proceedings and Workshop Papers**

[1] **Xian Su**, Brian Sukhnandan, Jun Li, "*On Arbitrary Ignorance of Stragglers with Gradient Coding*," in Proc. of the 43rd IEEE International Conference on Distributed Computing Systems (ICDCS), Hong Kong, July 18-21, 2023.

[2] Xiaodi Fan, Pedro Soto, Yuchun Zou, **Xian Su**, Jun Li, "*Sequence-Aware Coding for Leveraging Stragglers in Coded Matrix Multiplication*," in Proc. of IEEE International Conference on Communications (ICC), Rome, Italy, May 28-June 1, 2023.

[3] **Xian Su**, Xiaomei Zhong, Xiaodi Fan, Jun Li, "*Local Re-encoding for Coded Matrix Multiplication*," in Proc. of IEEE International Symposium on Information Theory (ISIT), Los Angeles, CA, June 21-26, 2020.

[4] **Xian Su**, Xiaodi Fan, Jun Li, "*Dynamic Coding for Distributed Matrix Multiplication*," NeurIPS 2019 Workshop on Information Theory and Machine Learning, Vancouver, BC, Canada, December 13, 2019.

PRESENTATIONS

[1] "On Arbitrary Ignorance of Stragglers with Gradient Coding," Oral, IEEE International Conference on Distributed Computing Systems, Hong Kong, China, July 19, 2023.

[2] "Local Re-encoding for Coded Matrix Multiplication," Oral (online), Graduate Center Computer Science Community Event, October 23, 2020.

[3] "Local Re-encoding for Coded Matrix Multiplication," Oral (online), IEEE International Symposium on Information Theory, June 24, 2020.

[4] "Dynamic Coding for Distributed Matrix Multiplication," Poster, NeurIPS 2019 Workshop on Information Theory and Machine Learning, Vancouver, Canada, December 13, 2019.

[5] "Dynamic Coding for Distributed Matrix Multiplication," FIU Computer Science Research Day, Poster, School of Computing and Information Sciences, FIU, Miami, FL, February 15, 2019.

PROFESSIONAL ACTIVITIES

- Review for Journal/Conference Manuscript Submissions
 - International Conference on Algorithms and Architectures for Parallel Processing (2023)
 - IEEE Transactions on Communications (2022)
 - IEEE Transactions on Computers (2022)
- Membership:
 - IEEE student member,
 - ACM student member

TEACHING EXPERIENCE

- Adjunct Lecturer, August 2023 – present
Department of Computer Science, Queens College, City University of New York, New York City

- CSCI 111 231D: *Introduction to Algorithmic Problem Solving*
- Teaching Assistant, August 2020 - present
Graduate Center & Queens College, City University Of New York, New York City
 - CSc 85020: *ST: Theoretical Computer Science (Coding Theory)*
 - CSc 84030: *Big Data Analytics*
 - CSCI 381/780: *Special Topics in Computer Science (Cloud Computing)*
 - CSCI 381/780: *Special Topics in Computer Science (Parallel & Distributed Computing)*
 - CSCI 344/715: *Distributed Systems/Computing*
 - CSCI 240: *Computer Organization and Assembly Language*
 - CSCI 111: *Introduction to Algorithmic Problem Solving*
- Teaching Assistant, September 2019 - May 2020
School of Computing and Information Sciences, Florida International University, Miami, Florida
 - CDA 4101: *Structured Computer Organization*
 - CDA 3103: *Fundamentals of Computer Systems*
 - COT 3100: *Discrete Structures*
 - CGS 3095 *Technology in the Global Arena*
- Student Teaching Assistant, August 2014 - June 2016
College of Information Science and Engineering, Ocean University of China, Qingdao, China
 - *The Art of Sound*
 - *The Art Practice of Sound*
 - *Acoustic Measurement*
 - *Explore the Underwater World*

AWARDS

1. IEEE ICDCS Travel Grant, Hongkong, China, 2023
2. Google Cloud Research Credits Program, United States, 2023
3. CUNY Graduate Center Dissertation Fellowship Award, United States, 2023
4. CUNY Graduate Center Doctoral Student Research Grant, United States, 2022
5. IEEE INFOCOM Student Grant, online, 2022
6. NeurIPS Travel Grant, Vancouver, Canada, 2019
7. First Prize in the 4th National Marine Vehicle Design and Production Competition
“*The design of a bionic whale navigation system for gathering and processing marine drifting debris*”, Team leader, Qingdao, China, 2015
8. Third prize of the 14th "Challenge Cup" National College Students Competition, “A kite-mimicked acoustic measurement platform of three-dimensional noise,” Team leader, Qingdao, China, 2015
9. Third prize of the 14th "Challenge Cup" National College Students Competition, “The Design of a Multifunctional Fast Search and Rescue Platform,” Team leader, Qingdao, China, 2015
10. National Training Program of Innovation and Entrepreneurship for Undergraduates, China, 2014

MENTORSHIP

- Eunhee Cho, Summer 2022
 - Master Student in Computer Science, Queens College, CUNY
- Brian Sukhnandan, Spring & Fall 2021
 - Undergraduate Student in Computer Science, Queens College, CUNY
 - Publication: Xian Su, **Brian Sukhnandan**, Jun Li, “*On Arbitrary Ignorance of Stragglers with Gradient Coding*,” in Proc. of the 43rd IEEE International Conference on Distributed Computing Systems (ICDCS), Hong Kong, July 18-21, 2023.

- Jared Parker, Summer 2020
 - Undergraduate Student in Computer Science, Virginia Commonwealth University
 - Publication: Xian Su, **Jared Parker**, Xiaomei Zhong, Xiaodi Fan, Jun Li, "*Local Re-Encoding for Coded Matrix Multiplication*," in IEEE Open Journal of the Communications Society, vol. 3, pp. 1265-1279, 2022.